

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: October 9, 1996  
Date Received: October 3, 1996  
Project: Metro Self Monitor, PO #M54767  
Date Samples Extracted: October 8, 1996  
Date Extracts Analyzed: October 8, 1996

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, AND ZINC  
USING METHOD 6010**

**Samples Processed Using Method 3005A**  
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M54767	1.7	1.6	2.1	0.16
Method Blank	<0.05	<0.05	<0.05	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: October 9, 1996

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Project: Metro Self Monitor, PO #M54767

### QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 73171 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	1.7	1.7	0	0-20
Copper	mg/L (ppm)	1.6	1.6	0	0-20
Nickel	mg/L (ppm)	2.1	2.1	0	0-20
Zinc	mg/L (ppm)	0.16	0.17	6a	0-20

Laboratory Code: 73171 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	1.7	94	96	80-120	2
Copper	mg/L (ppm)	5	1.6	91	94	80-120	3
Nickel	mg/L (ppm)	10	2.1	95	97	80-120	2
Zinc	mg/L (ppm)	5	0.16	99	102	80-120	3

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	103	102	80-120	1
Copper	mg/L (ppm)	5	101	100	80-120	1
Nickel	mg/L (ppm)	10	104	104	80-120	0
Zinc	mg/L (ppm)	5	106	107	80-120	1

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

knj A/I  
10-3-96  
2:02pm

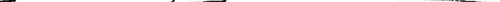
2:02pm

Send Report To: Alaska Copper Works Contact GERALD Thompson  
 Company 628 HAWFORD ST  
 Address Sea-Hyde  
 City, State, Zip 98184  
 Phone # (206) 382-8375 FAX # (206) 382-9307 Date 80-3-94

PURCHASE ORDER #

SAMPLERS (signature)

### PROJECT LOCATION

	3200 6th Ave S
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REMARKS

### SAMPLE DISPOSAL INFORMATION

Please Call with Results !!

☐ Dispose after 30 days  
☒ Return Samples  
☐ Call for Instructions

[illegible]

Time

Relinquished by:	GERALD Thayer	ACW	10/3/96	1:55pm
Received by:	John P. Wright	F+BT	10-3-96	1:58pm
Relinquished by:				
Received by:				



**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Beth M. Albertson, M.S.  
Bradley T. Benson  
Kelley D. Wilt

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044

October 9, 1996

**INVOICE # 96ACU1009-1  
DUPLICATE COPY**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M54767: Results of testing requested by  
Gerry Thompson, Project Manager for material submitted on October 3, 1996.

1 water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due .....

\$ 65.00

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

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TEL: (206) 285-8282  
FAX: (206) 283-5044

October 9, 1996

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on October 3, 1996 from your Metro Self Monitor, PO #M54767 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

A handwritten signature in dark ink, appearing to read 'Kurt Johnson', with a large, stylized loop at the end.

Kurt Johnson  
Chemist

keh  
Enclosures  
ACU1009R.DOC